



Sales Brief

You can get a platform with dual-channel memory performance to take advantage of AGP 8X graphics

The Intel® E7205 Chipset delivers dual-channel DDR memory and AGP 8X performance to powerful Intel® Pentium® 4 Processor-based systems.

Technology Focused on Demanding Applications

Advanced computer users in fields such as financial services, mechanical design and modeling, and digital content creation are demanding Pentium® 4 processor systems which provide great performance and robust platform features for greater productivity. The E7205 chipset, which is designed to take advantage of the fastest Pentium 4 processor, also delivers advancements in key platform subsystems: support for Hyper-Threading Technology, dual-channel DDR memory, AGP 8X graphics and integrated Hi-Speed USB 2.0. At the same time, the E7205 chipset continues the tradition of reliability and manageability you've come to expect in chipsets from Intel.

New Features Deliver Greater Performance

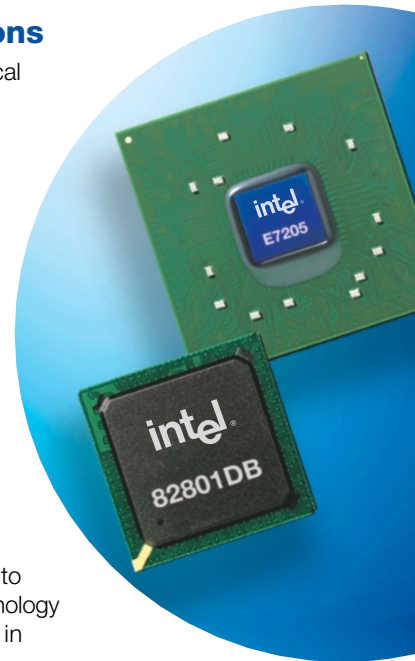
Next-Generation Processor: The E7205 chipset is optimized for the Pentium 4 processor, and Hyper-Threading Technology. The E7205 chipset accesses the processor across a 4.3 GB/s system bus, delivering faster system responsiveness for intensive entry workstation class applications. Hyper-Threading Technology allows each processor to execute instructions on multiple software threads. Hyper-Threading Technology delivers performance gains to common workstation applications and in multitasking environments.

High-Performance Memory

Platforms taking advantage of higher Pentium 4 processor system bus speeds benefit from balanced, high-bandwidth, memory subsystems. The E7205 chipset provides two DDR266 memory channels, for a total of 4.3 GB/s of bandwidth, optimized to match the system bus bandwidth. Synchronous operation of the system bus and memory helps eliminate performance bottlenecks for intensive workstation applications, and allows outstanding memory access for priority graphic and I/O transactions.

Next-Generation AGP 8X Graphics

The graphics subsystem of the E7205 chipset delivers an enhanced implementation of advanced graphics features which are important to workstation users. The AGP 8X graphics bus on the E7205 chipset delivers 2.1 GB/s of graphics bandwidth, twice as much as current AGP technology. The E7205 chipset incorporates the AGP 8X graphics interface directly into the chipset's memory controller hub. This chipset feature eliminates any possible latencies introduced by a separate graphics controller. This chipset is also backwards-compatible with the AGP 4X graphics cards based on the AGP 2.0 specification. Overall, the E7205 chipset enables a high-performance Pentium 4 processor-based workstation platform with the very latest in graphics technology.



The Intel® E7205 Chipset delivers outstanding performance and AGP 8X graphics to workstation-class platforms.



Convenient, Easy-to-Use I/O

The E7205 chipset supports multiple I/O and peripheral connection options. First, the PCI bus offers support for Intel® Gigabit Ethernet controllers, as well as a wide range of peripheral controllers. The E7205 chipset also includes six ports of integrated Hi-Speed USB 2.0. This interface provides up to 40 times greater bandwidth over the original USB 1.1 specification, and delivers performance gains when transferring large data sets to portable devices. Each of these interconnects are supported within the platform by the Intel® Accelerated Hub Architecture, a fast, reliable interconnect, designed quickly to move data through the platform quickly, and deliver it to the powerful Pentium 4 processor.

Reliability and Manageability

The E7205 chipset incorporates enhanced system reliability features. In addition to error correction on the system bus, it also supports single memory channel operation and error correction code (ECC) memory.

Parity checking may also be performed on Intel® Hub Architecture interconnect between chipset components. This means that data integrity is protected on all key interfaces of the E7205 chipset.

The E7205 chipset, with integrated LAN controller, enables Alert on LAN* capability. Alert on LAN is a feature that broadcasts an alert in the case of a software failure or system intrusion. This feature can help reduce system downtime and improve remote problem resolution for IT groups, as the alert occurs even when the OS is not present, the CPU is removed, or the system is turned off.

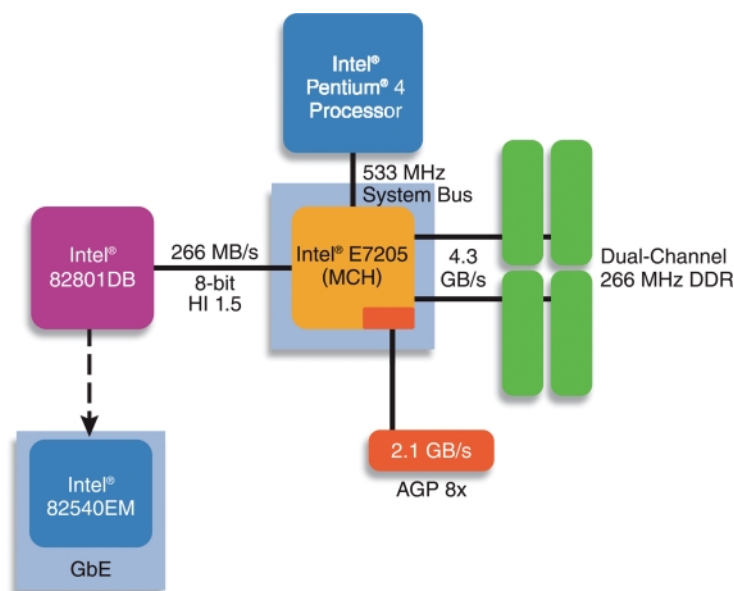


Figure 1.0 Intel® Pentium® 4 Processor and the Intel® E7205 Chipset Entry-Level Workstation Block Diagram

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